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# Bash - get current script directory path

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In this short article, we would like to show how to get the currently executed script directory path in Bash.

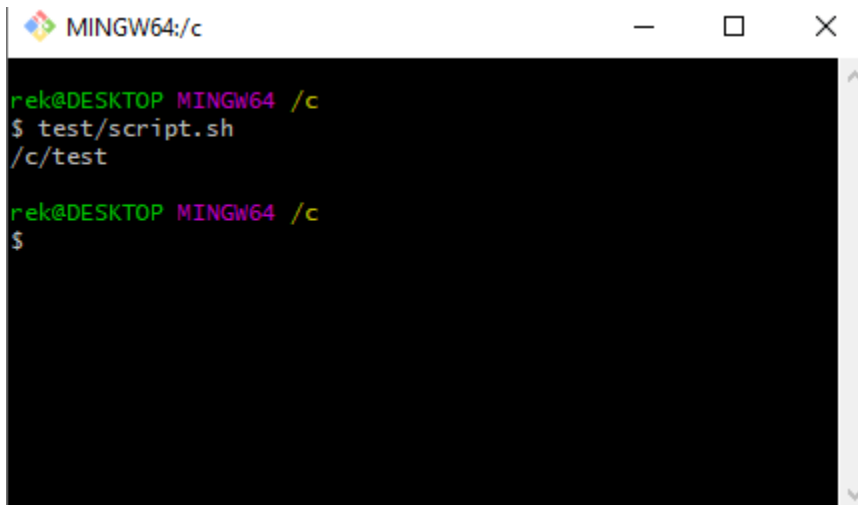
Quick solution:

```
1 #!/bin/bash
2
3 SCRIPT_DIR=$(cd "$(dirname "${BASH_SOURCE[0]}")" && /dev/null && pwd)
4
5 echo $SCRIPT_DIR;
```

Notes:

- no metter from where we will execute script, `$SCRIPT_DIR` will indicate directory where script is located, e.g. `/c/test/script.sh` with above script will print `/c/text`,
- the solution is not working if last component of the script path is a symlink, but it is enough for most cases.

Screenshot:



```
MINGW64:/c
rek@DESKTOP MINGW64 /c
$ test/script.sh
/c/test
rek@DESKTOP MINGW64 /c
$
```

Script directory path printed in Bash under Windows.

## Universal Windows and Linux path formats [Edit](#)

If you want to get a solution that returns Windows or Linux formatted path try this solution:

```
1 #!/bin/bash
2
3 SCRIPT_DIR=$(cd "$(dirname "${BASH_SOURCE[0]}")" && /dev/null && (pwd -W 2> /dev/null || pwd))
4
5 echo $SCRIPT_DIR; // Under Windows:      C:/test
6                  // Under Linux/Unix:   /c/test
```

## Alternative solutions [Edit](#)

There are other ways how to get executed `script directory path`, we will focus on 2 of them. The main idea is to get script full path with `readlink` or `realpath` command and later extract directory path with `dirname`.

### 1. `readlink` based example [Edit](#)

That approach doesn't prevent situations when the script is attached as a source ( `source path/to /script.sh` ) returning called script path - is enough when we have just one `*.sh` script.

`script.sh` file content:

```
1  #!/bin/bash
2
3  SCRIPT_PATH=`readlink -f "$0"`
4  SCRIPT_DIR=`dirname "$SCRIPT_PATH"`
5
6  echo $SCRIPT_DIR;
```

Executing from `/c` location:

```
1  $ pwd
2  /c
3
4  $ test/script.sh
5  /c/test
```

### 2. `realpath` based example [Edit](#)

That approach doesn't prevent situations when the script is attached as a source ( `source path/to /script.sh` ) returning called script path - is enough when we have just one `*.sh` script.

`script.sh` file content:

script.sh file content.

```
1  #!/bin/bash
2
3  SCRIPT_PATH=`realpath "$0"`
4  SCRIPT_DIR=`dirname "$SCRIPT_PATH"`
5
6  echo $SCRIPT_DIR;
```

Executing from `/c` location:

```
1  $ pwd
2  /c
3
4  $ test/script.sh
5  /c/test
```

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